

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 21 1997

Subject: Review of Region 5 Data for General Hydraulics Code:ZZ

From: Charles T. Elly, Director

Region 5 Central Regional Laboratory

To:

Attached are the results for General Hydraulics Code:ZZ

CRL request number 970311

for analyses for Antimony, Arsenic, Cadmium, Lead, Mercury, Selenium and Thallium

Results are reported for sample designations: 97IE06S01, 97IE06S02, 97IE06D02, 97IE06S03, 97IE06S04 and 97IE06R01

Results Status:

- ☒ (x) Acceptable for Use
- ☐ () Data Qualified, but Acceptable for use
- ☐ () Data Unacceptable for Use

Comments on Data Quality by Reviewer

All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for General Hydraulics Code:ZZ

John W. Moore 21 July 97
Peer Task Monitor Review and Date ☒ Reviewed () Unreviewed

John W. Moore 21 July 97
Team Leader and Date ☒ Reviewed () Unreviewed

Chuck E. Alb 7/21/97
QC Coordinator and Date () Reviewed ☒ Unreviewed
(position vacant)

Sylvia Griffin JUL 21 1997
Data Management/Coordinator and Date Received

Date Transmitted JUL 21 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Method Number: GFAA Metals
Date Generated: July 15, 1997
Author: Bai Yuen

Site Name: General Hydraulics
Charge Number(s): ESE51089
TDF Number: 5104-110
WAD Number: 05-97-1-04

GFAA NARRATIVE for Data Set 970311

Six water samples, 97IE06S01, S02, D02, S03, S04 and R01 were collected from the General Hydraulics site. All samples were submitted for the analysis of total arsenic, cadmium, lead, selenium and thallium by GFAA. The samples were collected on 06/25/97 and were received properly preserved by the CRL on 06/26/97. All samples were part of data set 970311.

All samples were digested following standard CRL GFAA digestion protocols. The samples were digested on 06/27/97. All analyses were performed within the six month holding time.

Analytical results were stored in .DAT files CDBY630.DAT, PBBY702.DAT, TLBY701.DAT, and database files ASSE070997 and ASSE071097.

Arsenic

Data Files ASSE070997 and ASSE071097

Arsenic was analyzed without incident.

All QC was within the specified control limits.

Cadmium

Data File CDBY630.DAT

Cadmium was analyzed without incident.

All QC was within the specified control limits.

Lead

Data File PBBY702.DAT

Lead was analyzed without incident.

All QC was within the specified control limits.

Narrative by: B. Yuen ESAT
Date: 7-15-97

Thallium

Data File TLBY701.DAT

Thallium was analyzed without incident.

All other QC was within the specified control limits.

Selenium

Data Files ASSE070997 and ASSE071097

Selenium was analyzed without incident.

All QC was within the specified control limits.

Acceptable results for arsenic, cadmium, lead, selenium and thallium were obtained for the samples.

Narrative by: B. Lyne ESAT
Date: 7-15-97

Method Number: 3114B
Date Generated: 07-07-97
TDF Number: 5104-110

SiteName: GENERAL HYDRAULICS)
Charge Number: ESE-51-089
Work Assignment Number: 05-97-1-04

FIAS NARRATIVE for Data Set 970311

6 water samples from data set 970311 (97IE06S01- S04, D02 and R01) were submitted for the analysis of total antimony by hydride AA. The samples were collected on 06/25/97.

All samples, QC checks and standards were digested following standard CRL FIAS digestion protocols for waters on 06-27-97 and were analyzed on 06-30-97. The data for samples from data set 970311 and all required QC were acceptable.

The hold time for metals is six months. All samples were analyzed within the six month hold time for metals. A spiked blank, used as a laboratory control sample (LFM), was digested and analyzed with the set of samples. Analytical results for 970311 were stored in .DAT file SBLL0630.DAT.

Narrative by: L. J. Jones ESAT
Date: 7/16/97

Data Set: 970311
Date Generated: 07-07-97
Author: Larisa Leonova
Method Number: 3114*B

Site Name: GENERAL HYDRAULICS
WA Number: 05-97-1-04
TDF Number: 5104-110
Charge Number: ESE-51-089

Hg NARRATIVE for Data Set 970311

6 water samples (97IE06S01-S04, D02 and R01) were submitted for the analysis of total mercury by cold vapor FIAS AA. The samples were collected on 06/25/97 and were received by the CRL properly preserved on 06/26/97. All samples were part of the data set 970311.

All samples and standards were digested following standard CRL cold vapor FIAS AA digestion protocols for waters on 07/01/97. The holding time for Hg is 28 days. All samples were analyzed on 07/02/97, within the 28 day hold time for mercury.

A spiked blank, used as a laboratory control sample (LCS), was digested and analyzed with the set of samples. Analytical results were stored in .DAT file HGLL0702.DAT.

The calibration curve correlation coefficient, QC check samples and method blanks were within the methods control limits. All sample results were acceptable.

L. Leonova
7/7/97

LOCKHEED MARTIN ESAT CONTRACT
DATA SET CUSTODY TRANSFER FORM

DATA SET NUMBER 970311 PWO NUMBER ESE 51089

SITE NAME: GENERAL HYDRAULICS TDF NUMBER 5104-110

PARAMETER: GFAA/FIAS METALS MATRIX: WATER

SF DU/ACT NO: TFA 301 Y /C

SAMPLE NUMBERS: 97IE06S01, S02, D02, S03, S04 AND R01

NUMBER OF SAMPLES: 6

ESAT APPROVALS:

B. Uyen / L. Forder / 7-16-97
Analyst Date

J. Garmy 7-16-97
Task Group Leader Date

R. Dily 7-16-97
QA/OC Coordinator Date

Jessie Miller 2-17-97
ESAT Team Manager Date

COMMENTS: The original raw data are with data set 970298.

The RLIMS system was not operable ~~operable~~. No RLIMS reports were generated.

RLIMS entry will be completed ^{in a} later day while the RLIMS system is ^{operable} ~~operational~~ _{at}

The above identified data set was transferred from ESAT custody to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the indicated date relinquished.

Relinquished by J. Gary Date 7-17-97

Received by Dalmon Date 17 July 92

EPA APPROVALS:

John W. Moore 21 July 92
EPA WAM Date

☒ Reviewed
☐ Unreviewed
☒ Accepted
☐ Rejected
☐ Returned:

Date _____

COMMENTS:

Section Chief 2 July 97
Date

☒ Reviewed ☐ Unreviewed

ESAT RPO Date

DATA COORDINATOR/RECD/TRANSMTD

A COPY OF THIS CUSTODY TRANSFER FORM WITH A RECEIVED BY EPA SIGNATURE IS TO BE FILED IN THE TDF FILE. THE ORIGINAL CUSTODY TRANSFER ACCOMPANIES THE DATA SET TO BE APPROVED BY THE EPA AND A COMPLETED COPY RETURNED TO ESAT.

SAMPLE RESULTS (UG/L) FOR DATA SET 970311

| Sample # 97IE06 | As | Sb | Cd | Pb | Se | Tl |
|--------------------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| S01 | 0.5U | 1U | 0.2U | 2U | 0.5U | 2U |
| S02 | 0.5U | 1U | 0.2U | 2U | 0.6 | 2U |
| D02 | 0.5U | 1U | 0.3 | 2U | 0.5U | 2U |
| S03 | 0.5U | 1U | 0.2U | 2U | 0.5U | 2U |
| S04 | 0.5U | 1U | 0.2U | 2U | 1U | 2U |
| R01 | 0.5U | 1U | 0.2U | 2U | 0.5U | 2U |
| ANALYST DATE | <i>B. Lynes</i> 7-16-97 | <i>L. Leon</i> 7-16-97 | <i>B. Lynes</i> 7-16-97 | <i>B. Lynes</i> 7-16-97 | <i>B. Lynes</i> 7-16-97 | <i>B. Lynes</i> 7-16-97 |

*sum
21 July 97*

FINAL SAMPLE REPORT FOR Hg
DATA SET 970311
GENERAL HYDRAULICS
(ug/L)

| SAMPLE | DATE | ANALYST | Hg RESULT REPORTED |
|-----------|----------|---------------|-----------------------|
| 97IE06S01 | 07/02/97 | <i>L. Lee</i> | 0.2 U |
| 97IE06S02 | 07/02/97 | <i>L. Lee</i> | 0.2 U |
| 97IE06D02 | 07/02/97 | <i>L. Lee</i> | 0.2 U |
| 97IE06S03 | 07/02/97 | <i>L. Lee</i> | 0.2 U |
| 97IE06S04 | 07/02/97 | <i>L. Lee</i> | 0.2 U |
| 97IE06R01 | 07/02/97 | <i>L. Lee</i> | 0.2 U |

from
21 July 97